CLASSIFICATION SECURITY INFORMATION CENTRAL INTELLIGENCE AGENCY

INFORMATION FROM FOREIGN DOCUMENTS OR RADIO BROADCASTS REPORT

CD NO.

COUNTRY

Economic - Electric power

DATE OF INFORMATION

1885 - 1955

SUBJECT

HOW

and bimonthly periodicals; books

Daily newspapers; semimonthly, monthly,

DATE DIST. 19 May 1953

PUBLISHED WHERE **PUBLISHED**

USSR: US

NO. OF PAGES

DATE

PUBLISHED.

1936 - Jan 1953

SUPPLEMENT TO

Russian; English

LANGUAGE

REPORT NO.

THIS IS UNEVALUATED INFORMATION

SOURCE

STATE

ARMY

AIR

Newspapers, periodicals, and books as indicated.

TABLE SHOWING USSR ELECTRIC POWER DEVELOPMENT

The following table is a compilation of figures on the development of electric power in the USSR between 1885 and 1953, with plan figures to 1953. It is designed to serve as a basis for future exploitation by FDD of this subject and to give as over-all picture of electric power in the USSR on the basis of foreign documents.

The information in the table is presented under three headings: (1) installed capacity in thousands of kilowatts, with a breakdown by total capacity, capacity of TES (steam-electric power stations), and capacity of GES (hydroelectric power stations); (2) output in millions of kilowatt-hours, with the same breakdown; and (3) power per capita per year in kilowatt-hours.

All except three of the sources used to compile the table are Russian. Asterisks in the table indicate that figures are from non-Russian sources.

All documented figures are either taken as cited from the sources, in which case only the source is cited, or calculated on the basis of information contained in the sources. In the latter case the figures used as a basis for calculations are quoted in notes accompanying the sources to give the reader an opportunity to check the accuracy of the calculations. Undocumented figures are arrived at by simple arithmetic calculations of available figures.

Frequently, there are variations and discrepancies in Soviet figures which must be taken into account in appraising the accuracy of the table. The term 'about" is used to modify figures under two circumstances: when it is used in the source, and when a figure is arrived at on the basis of an average between conflicting figures cited in different sources for the same year or period. The conflicting figures are cited together in the table and documented. A figure is followed by a question mark when it is calculated on the basis of plan figures whose accomplianment is not substantiated in any Russian sources.

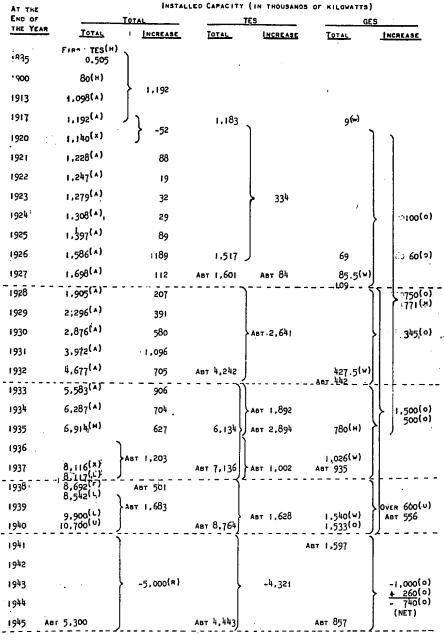
 $\sqrt{ ilde{ ilde{L}}}$ etters in parentheses refer to appended sources.7

-1-

<u>S-E-C-R-E-T</u> CLASSIFICATION DISTRIBUTION NSRB NAVY

50X1-HUM





ZADJOINS P 3 HERE 7

- 2 -

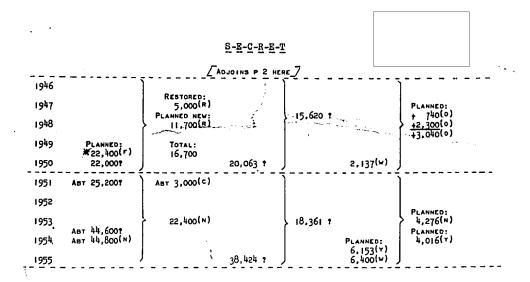
<u>S-E-C-R-E-T</u>

50X1-HUM



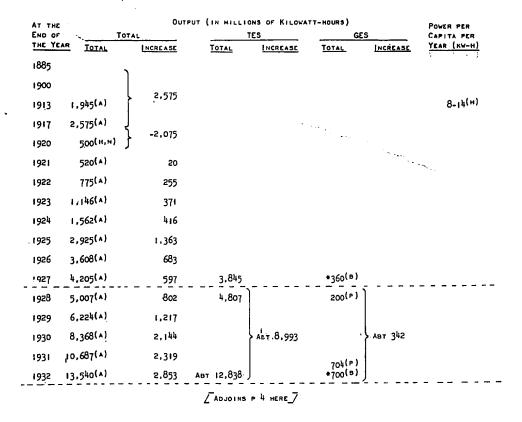
_

Γ

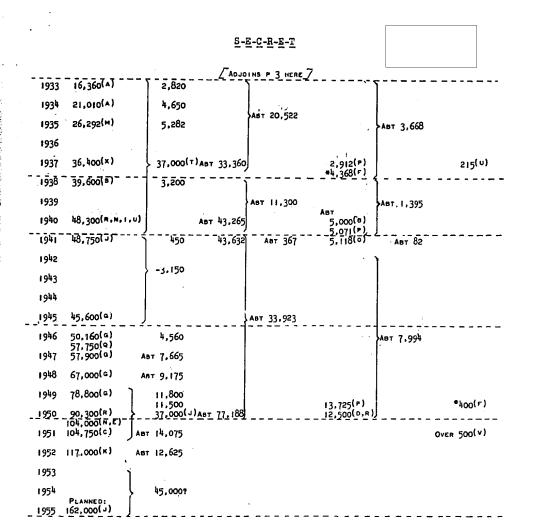


50X1-HUM





- 3 -<u>s-e-c-r-e-t</u> Γ



50X1-HUM



 $\underline{\mathbf{S}} - \underline{\mathbf{E}} - \underline{\mathbf{C}} - \underline{\mathbf{R}} - \underline{\mathbf{E}} - \underline{\mathbf{T}}$

<u>S-E-C-R-E-T</u>

SOURCES

- a. B. I. Veyts, Elektroenergetika SSSR (Electric Power Development in the USSR), Moscow, 1936
 - b. Soviet Studies, No 1, Vol IV, Oxford, Jul 52
 - c. V Pomosten' Profsoyuznomu Aktivu, No 6, Moscow, Mar 52.

"Electric power production in 1951 was 116 percent of 1950 output. Total capacity of electric power stations put in operation in 1951 was about 3 million kilowatts."

d. Elektrichestvo, No 1, Moscow, Jan 52.

"The output of all the GES in 1950 was 2.5 times greater than 1940 output." $\,$

- e. Pravda, Moscow, 7 Nov 51
- f. Economic Geography, Vol 27, Clark University, April 1951.

"The output of GES in 1937 was 12 percent of the total output for the year." $\ensuremath{\text{\text{T}}}$

g. Vestnik Statistiki, No 1, Moscow, 1950, page 9.

"If the electric power output in 1945 is taken as 100 percent, the output in 1946, 1947, 1948, and 1949 will be 110, 127, 147, and 173 percent, respectively."

- h. A. V. Vinter, Itogi i Perspektivy Razvitiyu Sovetskoy Energetiki (Summary of Soviet Power Development and Outlook for the Future), Moscow, 1950
- Soviet Affairs, No 207, Dept of State OIR Report No 4800.45, Sep 52, page 22
 - j. Pravda, 6 Oct 52.

"It is planned to produce 117 billion kilowatt-hours in 1952, i.e. 2.4 times more; than in 1940." "During 1949 - 1950 - 1951 the output increased 37 billion kilowatt-hours."

- k. Elektricheskiye Stantsii, No 1, Moscow, Jan 53
- V.V. Veselovskiy, Kurs Ekonomiki i Planirovaniya Kommunal'nogo Khozyaystva (Course on Economics and Planning of Municipal Economy), Moscow, 1945
 - m. SSSR Strana Sotsializma (USSR Land of Socialism), Moscow, 1936
 - n. Izvestiya, Moscow, 10 Sep 52.

Ninety-six times more electric power was produced in 1940 than in 1920, when it was 500 million kilowatt-hours. During the Fifth Five-year Plan total capacity of electric power stations will be doubled and that of GES tripled.

o. Geografiya v Shkole, No 5, Moscow, Sep/Oct 52

50X1-HUM



- 5 -

$\underline{S} - \underline{E} - \underline{C} - \underline{R} - \underline{E} - \underline{T}$

"The electric power output of all the GES in 1941 was 10.5 percent of total output. It was planned to raise it in 1950 to 15.4 percent of that year's output." "The total capacity of the new GES planned for construction during the postwar Five-Year Plan was 2.3 million kilowatts, which is 1.5 times greater than the capacity of GES in operation at the outbreak of World War II." "The capacity of GES destroyed during the war was restored by 1950."

During World War II, GES with a total capacity of 260,000 kilowatts were built in the eastern regions of the USSR.

p. S. F. Shershov, Stalinskaya Elektrifikatsiya SSSR (Stalin Electrification of the USSR), Moscow, 1951.

"The electric power output of GES in percentage of the total output for the year was: in 1928, 4 percent; in 1932, 5.2 percent; in 1937, 8 percent; in 1940, 10.5 percent; and in 1950, 15.2 percent."

q. Pravda, 20 Jan 49.

 $!_{i}u_{i_{l_{i}}}$

"The electric power output in 1948 was 116 percent of 1947 output."

r. Bol'shevik, No. 8, Moscow, Apr 51.

"The planned output for 1950 was 82 billion kilowatt-hours, i.e., 170 percent of 1940 output, but actually it was 187 percent. Output of GES in 1950 was 2.5 times the 1940 output."

- s.. Sovetskaya Estoniya, Tallin, 4 Oct 52
- t. Znaniye Sila, No. 10, Moscow, Oct 52
- u. A. V. Vinter, Ot Perventsev Sovetskogo Gidroelektrostroitel'stvak Velikim Stroykam Kommunizma (From the Beginning of Soviet Hydroelectric Construction to the Great Projects of Communism), Moscow, 1951
- v. S. Matskevich, Rol' Elektrifikatsii v Razvitli Material'no-Tekhnicheskoy Bazy Sel'skogo Khozyaystva SSSR (Influence of Electrification on the Development of Material and Technical Bases of Agriculture of the USSR), Moscov, 1952
 - w. Gidrotekhnicheskoye Stroitel'stvo, No 10, Moscow, Oct 52

"Between 1918 and the beginning of the First Five-Year Plan the following GES were built: Volkhovskaya GES /capacity 60,000 Kilowatts (P)7; first aggregate of the Zemo-Avchal'skaya GES /12,000 kilowatts (P)7; and Yerevanskaya GES /4.500 kilowatts (P)7. At the end of the First Five-Year Plan the total capacity of GES was five times that 1927; at the end of the Second Five-Year Plan, 12 times that of 1927; and at the end of the Fourth Five-Year Plan, 25 times that of 1927."

- x. A.V. Vinter, Velikiye Stroiki Kommunizma (Great Projects of Communism), Moscow, 1951
 - y. Pravda, 20 Aug 52

"Kuybyshevskaya GES, with a capacity of 2,100,000 kilowatts, and others with a total capacity of 1,916,000 kilowatts will be completed during the Fifth Five-Year Plan."

.. & N D -

- 6 -

 $\underline{S} - \underline{E} - \underline{C} - \underline{R} - \underline{E} - \underline{T}$

50X1-HUM

